ASUS Z790-AYW WIFI W Intel Z790 LGA 1700 ATX

Brand: ASUS Product code: 90MB1HT0-M0AAY0

Product name: Z790-AYW WIFI W

Intel Z790 Chipset, 4 x DIMM slots, Max. 192GB, DDR5 8000+, 3 x M.2 slots and 4 x SATA 6Gb/s ports

ASUS Z790-AYW WIFI W Intel Z790 LGA 1700 ATX:

ASUS Z790 series motherboards are expertly engineered to unleash the full potential of 14th Gen Intel® Core™ Processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, Z790-AYW WIFI W provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. This platform delivers the power and connectivity that advanced AI PC applications demand.

FLEXIBILITY

Comprehensive controls form the foundation of the ASUS Z790 series. The Z790-AYW WIFI W motherboard packs flexible tools to tune every aspect of your system, enabling performance tweaks to perfectly match the way you work to maximize productivity.





Processor			Rear panel I/O ports	
Processor manufacturer *		Intel	USB 2.0 ports quantity *	4
Processor socket * Compatible processor series *		LGA 1700 Intel® Celeron®, Intel Core i3 12th Gen, Intel Core i3 13th Gen, Intel Core i3 14th Gen, Intel Core i5 12th Gen, Intel Core i5 13th Gen, Intel Core i5 14th Gen, Intel Core i7 12th Gen, Intel Core i7 13th Gen, Intel Core i7 14th Gen, Intel Core i9 12th Gen, Intel Core i9 13th Gen, Intel Core i9 14th Gen, Intel® Pentium® Gold	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
			USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
			USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
			Ethernet LAN (RJ-45) ports *	1
			HDMI ports quantity *	1
			Line-in	✓
Supported processor sockets		LGA 1700	Microphone in	✓
Memory			WiFi-AP antenna jack	1
Supported memory types * DDR5-SDRAM Number of memory slots * 4 Memory slots type DIMM			Network	
Memory channels ECC compatibility	Dual-channel Non-ECC		Ethernet LAN	✓
		0,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,8000	Ethernet interface type	2.5 Gigabit Ethernet
Supported memory clock speed (max)	8000 MHz		Wi-Fi *	✓
Maximum internal memory * Unbuffered memory	192 GB ✓		Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Storage controllers		Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi	
Supported storage drive types		HDD & SSD	Plantanth	6 (802.11ax)
Supported storage drive interfaces * M.2,			Bluetooth	
Number of HDDs supported 4		•	Bluetooth version	5.3
Number of storage drives supported 7		Features		
RAID support		✓	Motherboard chipset *	Intel Z790
RAID levels		0, 1, 5, 10	Audio output channels *	7.1 channels
Graphics			Product colour	Aluminium
Parallel processing technology support *		Not supported	Component for *	PC
			Motherboard form factor *	ATX
On-board graphics card		×	Motherboard chipset family *	Intel

Internal I/O		Features	
USB 2.0 connectors *	2	Cooling type	Active
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Windows operating systems supported	Windows 10 x64, Windows 11
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Expansion slots	
Number of SATA III connectors *	4	PCI Express x1 (Gen 4.x) slots	2
S/PDIF out connector	✓	PCI Express x16 (Gen 4.x) slots	3
Front panel audio connector	✓	Number of M.2 (M) slots	3
ATX Power connector (24-pin)	1	1st M.2 largest key size	22110
CPU fan connector	· ·	1st M.2 highest PCI Express generation	4.0
Number of CPU fan connectors	1	2nd M.2 largest key size	2580
Number of chassis fan connectors	3	2nd M.2 highest PCI Express generation	4.0
Peripheral (Molex) power connectors (4-pin)	1	3rd M.2 largest key size	22110
EPS power connector (8-pin)	✓	3rd M.2 highest PCI Express generation	4.0
Number of EPS power connectors 8-pin)	1	BIOS	
Number of COM connectors	1	BIOS type *	UEFI AMI
TPM connector	✓	BIOS memory size	192 Mbit
Thunderbolt headers	1	Weight & dimensions	
12V power connector	✓	Width	305 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA
		Screws included	✓

Catalog Object Cloud



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